



Data Server Featured Topics

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Data Server Featured Topics Agenda



Mode Mangement

Backup

Compression

Subsetting, Subsampling, and Averaging

Subscriptions



Mode Management

DSS will Support Mode Management with

- **Incorporation of PF Infrastructure**
- **Multiple instantiations of software processes**
- **Processes are configuration driven**
- **No mode specific logic in software**
- **Multiple instances of the COTS (e.g., databases and AMASS)**
- **Data separation (e.g., test and operational) via naming conventions**

DSS will be consistent with the Transition from A->B guidance

Design References

- **MSS Design Specification, 305-CD-029-002, Section 6.1**
- **Data Server Subsystem Design, 305-CD-024-002, Section 3.2.4**



Backup

	Release A	Release B
System Data	Legato Networker	Legato Networker
Metadata Database	COTS DBA tools	COTS DBA tools
Archived Data	Manual Procedures	Automatic Backup that is Operator Selectable

Design References

- System Management Design, 305-CD-029-002
- Operations Concepts, 604-CD-002-003, Section 4.2.2 (Backup)
- Operations Scenarios, 605-CD-002-001, Section 5.2.1 (Restore)
- Data Server Subsystem Design, 305-CD-024-002, Section 6



Compression

Insertion

- In support of Inter-DAAC transfer from PRS
- UNIX Compress

Distribution

- Option on “Acquire” service request
- UNIX Compress

Archival

- Optionally performed via firmware at tape drives

Design References

- Data Compression Study for the ECS Project, 194-00316-TPW
- Data Server Design, 305-CD-024-003, Section 7

Subsetting, Subsampling, and Averaging



Subsetting/Subsampling/Averaging Requirements

Data Type Services

- Implemented within CSDTs
- Supported by HDF-EOS capabilities
- Data Type Services Matrix

Design Input

- SSIG

Prototyping Activities

- University of Alabama - Huntsville

Design References

- Data Type Services Matrix, 304-CD-005-001, Appendix F, <<http://ecsinfo.hitc.com/ssig/ssig.html>>
- IDR-B Slides, Subsetting/Subsampling/Averaging Drill Down, 705-CD-005-001

Subscriptions



IDG (Infrastructure Development Group) responsibility

DSS still uses subscriptions

- **No loss in functionality**

Design Reference

- **IDG Design, 305-CD-028-002**